

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/669,110
Filing Date	September 23, 2003
First Named Inventor	Steven H. Peterson
Art Unit	2877
Examiner Name	
Attorney Docket Number	64384.81710-001

Sheet 1

of 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
fil		US- 6,603,551	08-05-2003	Mestha et al	
fil		US- 6,574,425	06-03-2003	Weiss et al	
fil		US- 6,567,170	05-20-2003	Tandon et al	
fil		US- 6,556,300	04-29-2003	Tandon et al	
fil		US- 6,538,770	03-25-2003	Mestha	
fil		US- 6,419,340	07-16-2002	Wickham et al	
fil		US- 6,405,929	06-18-2002	Ehrhart et al	
fil		US- 6,384,918	05-07-2002	Hubble, III et al	
fil		US- 6,373,568	04-16-2002	Miller et al	
fil		US- 6,351,308	02-26-2002	Mestha	
fil		US- 6,178,007	01-23-2001	Harrington	
fil		US- 6,157,469	12-05-2000	Mestha	
fil		US- 6,157,454	12-05-2000	Wagner et al	
fil		US- 6,147,761	11-14-2000	Walowit et al	
fil		US- 6,020,583	02-01-2000	Walowit et al	
fil		US- 5,963,333	10-05-1999	Walowit et al	
fil		US- 5,963,244	10-05-1999	Mestha et al	
fil		US- 5,844,680	12-01-1998	Sperling	
fil		US- 5,838,451	11-17-1998	McCarthy	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	10-2005
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.15 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/669,110
Filing Date	September 23, 2003
First Named Inventor	Steven H. Peterson
Art Unit	2877
Examiner Name	
Attorney Docket Number	64384.81710-001

Sheet 2 of 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
FE		US- 5,748,221	05-05-1998	Castelli et al	
FE		US- 5,671,059	09-23-1997	Vincent	
FE		US- 5,612,902	03-18-1997	Stokes	
FE		US- 5,604,567	02-18-1997	Dundas et al	
FE		US- 5,526,190	06-11-1996	Hubble, III et al	
FE		US- 5,377,000	12-27-1994	Berends	
FE		US- 5,303,037	04-12-1994	Taranowski	
FE		US- 5,272,518	12-21-1993	Vincent	
FE		US- 5,266,792	11-30-1993	Crowne et al	
FE		US- 5,210,590	05-11-1993	Landa et al	
FE		US- 5,150,174	09-22-1992	Ryczek et al	
FE		US- 5,137,364	08-11-1992	McCarthy	
FE		US- 5,078,497	01-07-1992	Borton et al	
FE		US- 4,989,985	02-05-1991	Hubble, III et al	
FE		US- 4,986,665	01-22-1991	Yamanishi et al	
FE		US- 4,964,692	10-23-1990	Prescott	
FE		US- 4,917,500	04-17-1990	Lugos	
FE		US- 4,687,335	08-18-1987	Zupanick et al	
FE		US- 4,568,191	02-04-1986	Barry	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	10-20-05
-----------------------	---	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/669,110
Filing Date	September 23, 2003
First Named Inventor	Steven H. Peterson
Art Unit	2877
Examiner Name	
Attorney Docket Number	64384.81710-001

Sheet 3

of 4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
fb		US- 4,553,033	11-12-1985	Hubble, III et al	
fb		US- 4,111,556	09-05-1978	Grisar et al	
fb		US- 3,910,701	10-07-1975	Henderson et al	
fb		US- 3,715,163	02-06-1973	Mitchell	
fb		US- 2003/0142314	07-31-2003	Hubble, III et al	
fb		US- 2003/0132982	07-17-2003	Tandon et al	
fb		US- 2003/0122502	07-03-2003	Clauberg et al	
fb		US- 2003/0086090	05-08-2003	Tandon et al	
fb		US- 2003/0067502	04-10-2003	Arquilevich et al	
fb		US- 2003/0063275	04-03-2003	Hubble, III et al	
fb		US- 2003/0048449	03-13-2003	Vander Jagt et al	
fb		US- 2002/0191188	12-19-2002	Hubble, III et al	
fb		US- 2002/0191183	12-19-2002	Tandon et al	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

10-2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.


This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/669,110
		Filing Date	September 23, 2003
		First Named Inventor	Steven H. Peterson
		Art Unit	2877
		Examiner Name	
Sheet 4 of 4	Attorney Docket Number 64384.81710-001		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
FE		Keyence Corporation, "Color-Differentiating Fiberoptic Sensor" product brochure, 12/2002, pp 1-8	
FE		Delta Computer Systems, "CS64A Color Sensors," product brochure, 2001, pp 1-22	
FE		Keyence Corporation, "Highly Advanced RGB Digital Fiberoptic Sensor," downloaded from http://world.keyence.com/newprod/cz_k.html , 8/15/2002, pp 1-8	
FE		Vydas International Marketing, "Programmable Colour Sensor," downloaded from http://www.ssensorsforindustry.com/prod21.htm , 8/12/2002, pp 1-4	
FE		Sick Optic Electronics, "CS1 Color Sensor," product brochure, 612003, pp 364-369	
FE		Balluff Inc., "Inductive Sensors 2002: The NEW BFS-26K Sees Your True Colors!," downloaded from http://www.balluff.com/BFS/default.htm , 8/12/2002	
FE		Sensor Instruments GmbH, "SI-COLO Series," downloaded from http://www.johnkopplin.com/si-colo2-30-e.pdf , 1/25/2002	
FE		ZAND, et al, "Transimpedance Amplifier with Differential Photodiode Current Sensing," Univ. of Toronto Dept. of Electrical and Computer Engineering, Vol 2, 1999, pp 624-627	
FE		Burr-Brown Corporation, "Monolithic Photodiode and Amplifier," product brochure, 1994, pp 1-9	
FE		Linear Technology, "Low Noise, Picoampere Bias Current, JFET Input Op Amp," product brochure, 1999, pp 1-12	

Examiner Signature		Date Considered	10-2005
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/669,110
Filing Date	September 23, 2003
First Named Inventor	Steven H. Peterson
Art Unit	2877
Examiner Name	
Attorney Docket Number	64384 81710-001

Sheet	1	of	1
-------	---	----	---

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

10-2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.